



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
Department of Computer Science and Engineering
(EMERGING TECHNOLOGIES)

B. Tech Year Semester Examinations

Subject: CN

Subject Code:

(Question Bank for MID –II Examination)

Exam Duration: 2 hours

MaxMarks:24

PART - A

Unit-III (ONE MARK QUESTIONS)

S.No	Questions	Course Outcome	Blooms Taxonomy
1	Which routing algorithm uses the shortest cumulative distance to determine the path?	CO3	
2	Name one method for controlling congestion in networks.	CO3	
3	What is the length of an IPv4 address and give one example?	CO3	
4	What is the main purpose of IPv6 over IPv4?	CO3	
5	What does CIDR stand for?	CO3	
6	Which process divides a network into smaller subnetworks?	CO3	
7	Which protocol is used to map an IP address to a MAC address?	CO3	

Unit-IV (ONE MARK QUESTIONS)

S.No	Questions	Course Outcome	Blooms Taxonomy
1	Which layer provides services directly to the application layer?	CO4	
2	What uniquely identifies a transport layer connection?	CO4	
3	What is the main difference between TCP and UDP?	CO4	
4	What TCP, connection-oriented transmission requires?	CO4	
5	Which transport layer protocol provides connectionless service?	CO4	
6	What are steps involved in three-way hand shake in TCP connection establishment?	CO4	

Unit-V (ONE MARK QUESTIONS)

S.No	Questions	Course Outcome	Blooms Taxonomy
1	What does HTTP stand for?	CO5	
2	Name one protocol that operates at the application layer.	CO5	
3	What is the main purpose of the application layer in the OSI model?	CO5	
4	What does WWW stand for?	CO5	

5	What is the function of DNS in the application layer?	CO5	
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PART - B

Unit-III			
S.No	Questions	Course Outcome	Blooms Taxonomy
1	Write short notes on IPV4 and IPV6 protocol	CO3	
2	List and explain the network layer design issues.	CO3	
3	Why do we need routing algorithm? Discuss short path routing algorithm with example?	CO3	
4	Discuss the role of the Address Resolution Protocol (ARP) and Reverse Address Resolution Protocol (RARP) in network communication.	CO3	
5	Explain the purpose of subnetting and also explain CIDR.	CO3	

Unit-IV			
S. No	Questions	Course Outcome	Blooms Taxonomy
1	Discuss the various services provided by the transport layer to the upper layers in a network. How do these services facilitate reliable data communication.	CO4	
2	Explain the structure and significance of the TCP segment header in detail with a diagram.	CO4	
3	Explain how TCP connections are established using three-way hand shakes with neat diagrams.	CO4	
4	Explain the structure and significance of the UDP header in detail.	CO4	

Unit-V			
	Questions	Course Outcome	Blooms Taxonomy
1	What are the services provided by the Application layer?	CO5	
2	Write a short note on a) E-Mail b) HTTP	CO5	
3	Write a short note on a) TELNET b) WWW c) DNS	CO5	
4	Explain the client server with a neat diagram	CO5	

Instructor Name(s)

- 1) Dr CH Kiran Kumar
- 2) Mr V Shivraj
- 3) Mr D Santhosh Kumar
- 4) Ms Diyva

Department: CSE3 (ET)
CSE4 (AIML)